# TT OBDii
# Tracking Device with DTC

User Manual

TT OBDii TRACKIING DEVICE INTRODUCTION

The TT OBDii tracking device is a plug and play dedicated tracking device which can connect directly into a vehicles OBDII diagnostic port. The TT OBDii is designed for ease of installation and combines state of the art gsm and gps engines with fully internal antennae, on board processors and movement sensors and integrated software ensures exceptional power management to lower battery drain.

The TT OBDii is fitted with the highest quality GPS uBlox modules the TT OBDii is able to use A - GPS (Assist GPS) technology to ensure greater accuracy and faster acquisition time. The TT OBDii has full remote immobilize functionality if the device is removed, to ensure added vehicle security.

The TT OBDii was developed in co-operation with leading electronic assemblers to ensure a highly robust, hassle free product of the highest quality, consistent with Tracktech's complete product range.

SPECIFICATIONS

| | | |
|---|---|---|
| Power | Size | 55 x 50 x 25 mm |
| | Weight | 80 g |
| | IP Rating | IP62 |
| | Rechargeable Battery | 7.4V 180mAh Lithium ION |
| | Power Consumption | Sleep mode < 20uA<br>Power Save mode < 5mA<br>Max. Performance < 300mA |
| GSM | MCU | TI MSP430 12KB RAM, 256KB Flash |
| | Antenna | Internal |
| | Modem | uBlox LEON 100 |
| | Frequency | Quad band 850/900/1800/1900MHz |
| | GPRS | Class 10 (4 downlink, 2 uplink, max. 5)<br>Mobile Station Class B |
| | Approvals | AT&T, R&TTE, CE, GCF, FCC, PTCRB, Anatel, IC, China SRRC, etc |
| | SIM card | 3.3V SIM |
| | LBS Location Accuracy | 100 to 500meters(Urban)<br>0.5 to 30kilometers(Suburb) |
| Sensor | Antenna | Internal |
| | Receiver | uBlox NEO 6M (GPS, & Sbase) engine |
| | Channels | 50 Parallel Channels |
| | Sensitivity | -162dBm |
| | Navigation update | 1sec |
| | Acquisition | Cold Starts: 27s<br>Aided Starts: <1s<br>Hot Starts: <1s |
| | Location Accuracy | 2.5 to 10meters (Strong Signals)<br>500 meters (Weak Signals) |
| | 3D G - Force Sensor | Onboard |
| | Flash | 10,000 Locations |
| Environmental Conditions | Operating Temperature | -40 to +70 |
| | Storing Temperature | -40 to +85 |
| | Humidity | 95% |

## Features

- Real Time Location
- Real time vehicle diagnostic
- Diagnostic trouble codes
- J1962 OBDii plug interface
- Low power consumption
- 3D G-Force sensor
- Fuel consumption
- RPM and engine temperature
- Mobile Map Location
- Latitude and Longitude Location
- GSM Base Station Location（LBS Technology）
- Convenient GSM Mobile Control
- Easy - to - use SMS Communication Mode
- Internal Movement Sensor for better power management
  Internal backup battery for Device disconnection
  notification Internal memory for the data buffer
- Monitor driver behavior, hard braking, acceleration and
  harsh turning
- Anti theft immobilize if removed
- OBDii Protocols: SAE J1850, ISO 9141-2, ISO 14230-4,
  ISO 15765-4

## Quick Install Instructions

### Plug and Play

The TT OBDii is supplied f u l l y c o n f i g ur e d r ea d y f o r s i m pl e p l u g an d p l a y o p e r at i on . I t i s a l s o s u p pl i e d with a USB cable for further configuration if required. For further information on device configuration contact our customer service department at email: support@tracktech.co

### SIM card

Tracktech devices come fitted with one of Tracktech's Intelligent Multiple Network Roaming sims which allow our devices to operate worldwide. If you would like more information on these sims don't hesitate to let us know. If your device was bought without an IMNR sim the user must arrange a SIM card with valid data plan. Before inserting the SIM card it should be tested with your own mobile to ensure the sim is operating and is data enabled.

Insert the SIM card in your own mobile and try to send out SMS and receive SMS if it works fine then try to connect to internet by opening any website in mobile browser. If this works then you can insert into the TT OBDii by removing the black cover from the TT OBDii SIM card jack hole.

After removing the black cover you can insert the SIM card in the jack. Press the SIM card inside the SIM card jack completely.

### Locating OBDII Port

Normally t h e ODBII port is available in all the vehicles manufactured after 2000. This port is located under the dash near the driving side of the vehicle. Normally this port is covered with a cover.

### Connecting TT OBDii

Remove the cover on the OBDII port and connect the TT OBDii to the same port by inserting the device into the plug slot

### LED Flashes & Relevant Device Status

There is an external LED light to reflect t h e device status of the TT OBDii. In order to check t h e device status through this LED light flashes, the LED is located right next to the USB port.

When t h e device is at work, t h e LED will flash at 8 - sec cycle constantly to show related GSM and GPS status in each cycle.

In each flash cycle when device is at work, LED will flash to indicate GSM status first then GPS

status (there is an interval between them). To check the statuses, please count the LED light flashes then compare it to the chart below:

| Status | LED Flashes |
|---|---|
| Device Power on | LED ON <1sec |
| GSM module ON but unregistered | 1 flash at the beginning of each flash cycle |
| GSM module ON and registered | 2 flashed at the beginning of each flash cycle |
| GSM module OFF | No flash at the beginning of each flash cycle |
| GSM module on and registered | 3 flash then GPRS connection |
| GSM module on and registered | 4 flash then TCP connection |
| GPS module ON but haven't located | 1 flash after interval (behind GSM status flash) in each flash cycle |
| GPS module ON and located | 2 flashes after interval (behind GSM status flash) in each flash cycle |
| GPS module OFF | No flash after interval (behind GSM status flash) in each flash cycle |

The TT OBDii also uses the LED flashes to indicate relevant error if any of the following situations happens:Device Error, SIM card no balance, GSM network cannot register. When there is any error above, LED light will ON 1sec then flash quickly, which helps trouble shoot errors; the user can count LED quick flashes then compare it to below chart:

| Error Details | LED Flashes | Solutions |
|---|---|---|
| GSM module Communication Error | 1 flash | Power OFF then check GSM module power supply and communication |
| SIM card Error | 2 flashes | Power OFF then check whether SIM installation is good and PIN is disabled |
| Cannot register at GSM network | 3 flashes | To check whether SIM card is overdue and/or device in an area there is no GSM signal |
| GPS module Error | 4 flashes | Power OFF then check GPS module power supply and communication |
| SMS Sending Error | 5 flashes | To check whether there is SIM card SMS center setting error and/or |
| Can't use GPRS | 6 flashes | SIM card is overdue To check whether the APN is correct and SIM has GPRS function or not |
| TCP connection Error | 7 flashes | To check if the server is normal |
| Unknown Error | 8 flashes | Power OFF then Power ON, if there is still the error, please contacts us. |